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	CENTRAL INTELLIGENCE AGENCY	REPORT	
	INFORMATION REPORT	CD NO.	
COUNTRY	USSR (Abkhazskaya ASSR)	DATE DISTR.	16 June 1955
SUBJECT	Manufacture of Diaphragms at Professor Hertz $^{\ell_i}$ Institute at Agudzera	NO. OF PAGES	2
PLACE ACQUIRED		NO. OF ENCLS.	25X ²
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CLASSIFICATION C-O-N-F-I-D-E-N-T-I-A-L

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	For Release 2008/11/07 : CIA-RDP80-00810A00700071	0010-8
COUNTRY USSR	REPORT	
TOPIC <u>Manufacture of</u>	? Diaphragms at Professor Hertz Institute at A	Agudzeri 25X1
EVALUATION_	PLACE_OBTAINED	25X1
DATE OF CONTENT.	DATE PREPARED15 April	25X1
	DATE PREPARED	
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REMARKS		
	This is UNEVALUATED Information	25X1

1. Pulverized nickel was calendered, then heated in a furnace to a temperature of 1,000°C, and subsequently ground in a ball mill for \$8 hours. The powder thus obtained was elutriated through a glass filter at a rate of 1 kg per minute and then mixed with Dragant bonding agent. The powder was subsequently charged into a drying furnace operating at 60°C and sorted through hair sieves. After removal of the residual water content by acetone, the mass was pressed in a 865-ton press. Pressing was followed by the sintering procedure for which 769°C had experimentally been determined as the best temperature. (Experiments had been conducted at 725°, 760°, 815°, and 795°C). The resulting size of pores was 1.16 (delta gamma).

The following data regarding the diaphragms were stated:

Length approximately 500 mm
Diameter
Size of pores
(permeability to gases)

500 mm
12.8 mm
1.16 delta gamma

- 2. The output of diaphragms varied greatly. Some times, 35 items were manufactured daily between 0800 and 2300; at other times, the output was considerably lower.
- Most of the diaphragms manufactured at the Hertz Institute were shipped by plane to Moscow. During the period between November 1948 and early 1949, approximately 60 boxes, each containing 16 diaphragms, were dispatched from the Institute.
- 4. The diaphragms were embedded into small glass tubes which in turn were padded with loose cotton. Two layers of eight such tubes each were packed into one box. The boxes measured 57.2 x 53.0 x 16.2 centimeters.